

What is claimed is:

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Q1

1. A method in a data processing system comprising the steps of:  
generating at runtime a class that implements an interface specified at runtime having a method;  
creating an instance of the class;  
receiving by the class instance a request to process the method of the interface; and  
dispatching the request to an object to facilitate processing of the method of the interface.

2. The method of claim 1, wherein the step of generating a class further includes the step of:  
generating at runtime a class that implements more than one interface specified at runtime, each interface having one or more methods.

3. The method of claim 1, further including the steps of:  
receiving the dispatched request by the object; and  
returning a result by the object.

4. The method of claim 1, wherein the step of creating an instance further includes the step of:  
specifying an object to process method invocations on the instance.



**W** **E** **S** **T** **R** **O** **N** **I** **C** **A** **L** **E** **M** **E** **N** **T** **S**

6. A computer-readable medium containing instructions for controlling a data processing system to perform a method comprising the steps of:

- generating at runtime a class that implements an interface specified at runtime having a method;
- creating an instance of the class;
- receiving by the class instance a request to process the method of the interface; and
- dispatching the request to an object to facilitate processing of the method of the interface.

7. The computer-readable medium of claim 6, wherein the step of generating a class further includes the step of:

generating at runtime a class that implements more than one interface specified at runtime, each interface having one or more methods.

8. The computer-readable medium of claim 6, wherein the method further includes the steps of:

receiving the dispatched request; and

returning a result by the object.

9. The computer-readable medium of claim 6, wherein the step of creating an instance further includes the step of:

specifying an object to process method invocations on the instance.

10. A computer-readable medium containing instructions for controlling a data processing system having an invocation handler to perform a method comprising the steps of:

receiving at runtime an indication of at least one interface having a plurality of methods;

and

generating at runtime a class that implements the interface by generating code for each of the methods that dispatches an invocation of the method to the invocation handler.

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11. A method in a data-processing system having a proxy class implementing a list of interfaces specified at runtime, the interfaces containing methods, the system further having an instance of the proxy class and an invocation handler object for executing the methods contained by the interfaces, the method comprising the steps of:

- determining interfaces to be implemented by the proxy class;
- generating at runtime the proxy class implementing the determined interfaces;
- receiving a request by the proxy class instance to invoke a method of an interface implemented by the proxy class;
- dispatching the request to the invocation handler object;
- returning a value from the invocation handler object to the proxy class instance; and
- returning the value from the proxy class instance.

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Q3

12. A data-processing system comprising:
- means for generating at runtime a class that implements an interface specified at runtime having a method;
  - means for creating an instance of the class;
  - means for receiving by the class instance a request to process the method of the interface;
  - and
  - means for dispatching the request to an object to facilitate processing of the method of the interface.

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a processor for generating the class at runtime, receiving a request to access a method of the interface and dispatching the request to the object to facilitate processing of the requested method of the interface.

[illegible]